

AMENDMENTS TO THE DRAWINGS

Replacement sheet 1/8, which includes Fig. 1, is submitted to replace original sheet 1/8, which also included Fig. 1.

In Replacement Sheet 1/8, some of the lines connecting the reference characters to the image have been adjusted to point to the desired object with greater accuracy, and reference character 12, which was previously difficult to read, has been retyped.

No new matter has been added.

REMARKS

Introduction

Applicant gratefully acknowledges that the present application is directed to allowable subject matter. The present amendment is submitted to overcome the Examiner's remaining objections.

In the Specification

A Substitute Specification, both in marked up and clean formats, is enclosed herein. In the Substitute Specification, formatting has been amended to add section headers and descriptions of the figures, as requested by the Examiner. Further, language has been amended to introduce American idiomatic English usage and to provide proper antecedent basis to the claims.

No new matter has been added.

In the Claim

Claims 1-5 are pending in the application, of which claim 4 has been withdrawn from examination.

In the present amendment, claims 1-5 have been canceled and new claims 6-15 have been added. The new claims are believed to overcome the rejections of claims 1-3 and 5 under 35 U.S.C. 112 by clarifying that the putter has an adjustable length, by removing the recitation "of the so called," and by providing proper antecedent basis to all the limitations in the new claims.

The new claims are supported in the specification. No new matter has been added.

In the Drawings

In the enclosed Replacement Sheet 1/8, some of the lines connecting the reference characters to the image have been adjusted to point to the desired object with greater accuracy, and reference character 12, which was previously difficult to read, has been retyped.

No new matter has been added.

Conclusion

It is believed that all grounds for objection and rejection have been addressed and that the present application is now in condition for allowance. A notice to that effect is respectfully requested.

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Respectfully submitted,



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PUTTER TYPE GOLF CLUB AND A METHOD OF USE

FIELD OF THE INVENTION

[0001] The present invention relates to a golf club of the so called putter type that includes a cylinder shaped head with a centrally placed vertical hole, through which the shaft is inserted, said shaft, of adjustable length, being appropriately shaped and terminating with a grip formed by two spheres of different diameter, which have adjustable reciprocal positions and which provide for an ergonomic grip. More particularly, the present invention relates to a method of performing the decisive shot on the green, where the player hits the ball in a frontal position with respect to the target (hole), moving said club toward himself in the load phase and subsequently letting the ball be hit by the cylindrical head, with a pendulum like movement, in which said head oscillates between the legs of the player.

BACKGROUND OF THE INVENTION

[0001] The importance of the grip in performing a hitting shot is well known, especially during a putt when the ball must be holed. For instance, United States Patent No. 5,616,089 describes and claims a method of performing the decisive shot, the so called putt, by means of which it seems possible to control the speed of the stroke and the direction of the shot.[:] This method essentially envisages gripping the club with the dominant hand and placing the other hand on the wrist of the dominant hand in order to obtain a certain stabilization of said dominant hand without any appreciable influence on the shot. The shot is performed with the traditional address position, where the body of the golfer is parallel to the oscillation of the club. Such a position can, however, cause problems even in the stabilization of the stroking hand or in the trajectory of the ball, when one bears in mind that said ball must be hit with a specific position of the head of the golf club.

[0002] United States Patent No. 5,090,698, among other things, describes a cylindrical shape clubhead, in which the impact area with the ball essentially extends through the entire length of the cylinder. More particularly, the shaft is connected to the head at an end of the cylinder, providing for its use with a traditional address and causing a certain hesitation in controlling the execution of the shot, which is not a minor disadvantage when performing the decisive shot.

BRIEF SUMMARY OF THE INVENTION

[0003] It is an object of the present invention to provide a putter that enables a positive control of the stroke, both in terms of ball speed and direction on the green.

[0004] It is a second object of the present invention to provide a method of using said putter for performing the decisive shot without any of the hesitations and problems that the devices known to date do not prevent.

[0005] One embodiment of the invention is a golf club, of the so called putter type, that includes a cylindrically shaped head with a vertical semi-through hole or bore placed in the middle of the cylindrical surface, and a second, threaded hole or bore perpendicular to the first hole for the insertion of a screw. A shaft of adjustable length[[,.]] (by sliding the shaft in the first hole) is inserted in the first hole and has a first portion inserted in said hole vertically and orthogonally relative to said head and further has portions, one opposite the other and bent at an angle relative to the first vertical portion, with an upper angled portion terminating with an end, which is parallel to the ground when the club is in its position of use and which supports the grip formed by two spheres of different diameter so to provide an ergonomic grip. The internal sphere is capable of sliding along the shaft in order to allow the regulation of the grip itself. Weights can appropriately be added to the head, because the head can be manufactured with internal symmetrical slots suitable for the insertion of filling elements with various weight values.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

[0006] Figure 1 is a perspective view of a first embodiment of a golf club according to the present invention.

[0007] Figure 2 is a perspective view of the head of a golf club according to a second embodiment of the invention.

[0008] Figure 3 is a perspective view of the head of Figure 2 with a weight added.

[0009] Figure 4 is a perspective view of the grip of a golf club of Figure 1.

[0010] Figures 5 and 6 are additional views of the grip of Figure 4.

[0011] Figure 7 illustrates the assembly of the head and the shaft of the golf club of Figure 1.

[0012] Figure 8 is a schematic view of the impact of a golf club according to the present invention with a golf ball.

[0013] Figure 9 illustrates the grip of a golf club according to the present invention.

[0014] Figures 10 and 10' show the positioning of the body of the golfer as seen from a side and frontally.

[0015] Figures 11/11' - 12/12' - 13/13' exemplify the movement preceding and accompanying a golf shot when using a club according to the present invention.

[0016] Figures 14 and 15 show different stroke positions according to the present invention and the prior art.

DETAILED DESCRIPTION OF EMBODIMENTS OF THE INVENTION

[0017] Figure 1 shows a full view of an embodiment of the golf club according to the present invention, where the cylindrical head 10, the shaft with the vertical and angled portions 11 and the grip formed by two spheres of different diameter 12 and 12', inserted in a part intended to remain horizontal when the head is laying on the green are clearly shown. In Figure 1, said head is shown as solid, but said head could appropriately be manufactured (Figures 2 and 3) with special slots 13 for placing symmetrical weights 14 in order to provide a weight adjustment. Moreover, the second threaded hole 15 for the insertion of a screw could also be placed in any other position[[.]] on the cylindrical head.

[0018] Figures 4, 5, 6 show details of the grip and of the sliding of the internal sphere 12' along the shaft.

[0019] Figure 7 exemplifies the structure of the head. More particularly, Figure 7 shows that the end of the shaft is inserted in the vertical semi-through hole or bore 20 and that the horizontal threaded hole 15 for the insertion of a screw 16 - which blocks the system and acts at the same time as a reference for the impact with the ball - is centrally placed. With said hole in a different position, the reference for the impact with the ball is given directly by the point of insertion of the shaft.

[0020] Moreover, loosening the screw allows the head of the putter to slide along the shaft until it reaches the desired length. The regulation of the height of the shaft thus allows the club to be easily adjusted for use by players of different heights, and undoubtedly represents an advantage, which adds to the cylindrical shape of the head, enabling contact with the ball on any point on said head, even on a point different from the so called reference point, without any loss, for the golfer, of shot speed and direction.

[0021] Figure 8 is a schematic drawing of the impact between the putter and the ball, wherein the putter hits the upper part of the ball creating a top-spin effect that eases the rolling of the ball.

[0022] The shot is performed by the player according to a method, also an object of the present invention, which comprises the following steps by the golfer:

- positioning the body frontally with respect to the hole;
- gripping the putter grip with both hands;
- positioning the feet apart from each other while holding the knees slightly bent;
- positioning the arms, with the hands on the grip, so that the head of the club is next to the ball;
- positioning the head of the player perpendicular on the ball;
- loading the putter with a pendulum like movement using the shoulders as a pivot and the head of the putter as the mass; and
- oscillating the putter between the legs and hitting the ball with the long part of the cylindrical head of the putter.

[0023] Figure 9 shows the grip of the putter with both hands, while Figures 10 and 10' show the positioning of the body of the golfer as seen from a side and frontally.

[0024] The sequence of Figures 11/11' - 12/12' - 13/13' exemplifies the movement which precedes and accompanies the shot, while Figures 14 and 15 show the different positions according to the present invention (A) and the traditional address (B).

ABSTRACT OF THE DISCLOSURE

[0025] In one embodiment, a golf club of the so called putter type includes a cylinder shaped head having a vertical semi-through hole placed in the middle of the cylindrical surface, a second threaded hole perpendicular to the first hole for the insertion of a screw, and a shaft of adjustable length inserted in the first hole. The shaft includes a first portion inserted in said semi-through hole, vertically and orthogonally relative to said head, and further includes portions that are one opposite to the other and bent at an angle in relation to the first vertical portion, of which an angled upper portion is disposed parallel to the ground when the club is in its position of use, said end in turn supporting a grip formed by two spheres of different diameters, with the inner sphere configured to slide along the shaft.